

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058100 A1

(51) International Patent Classification⁷: **A47C 27/18**,
27/10

(21) International Application Number:
PCT/IT2004/000691

(22) International Filing Date:
13 December 2004 (13.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03425813.7 19 December 2003 (19.12.2003) EP

(71) Applicant and

(72) Inventor: **BERETTA, Giovanni** [IT/IT]; Via Italia 13,
I-20050 Lesmo MI (IT).

(74) Agent: **PIZZOLI, Antonio**; Società Italiana Brevetti
S.p.A., Via Carducci, 8, I-20123 Milano (IT).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

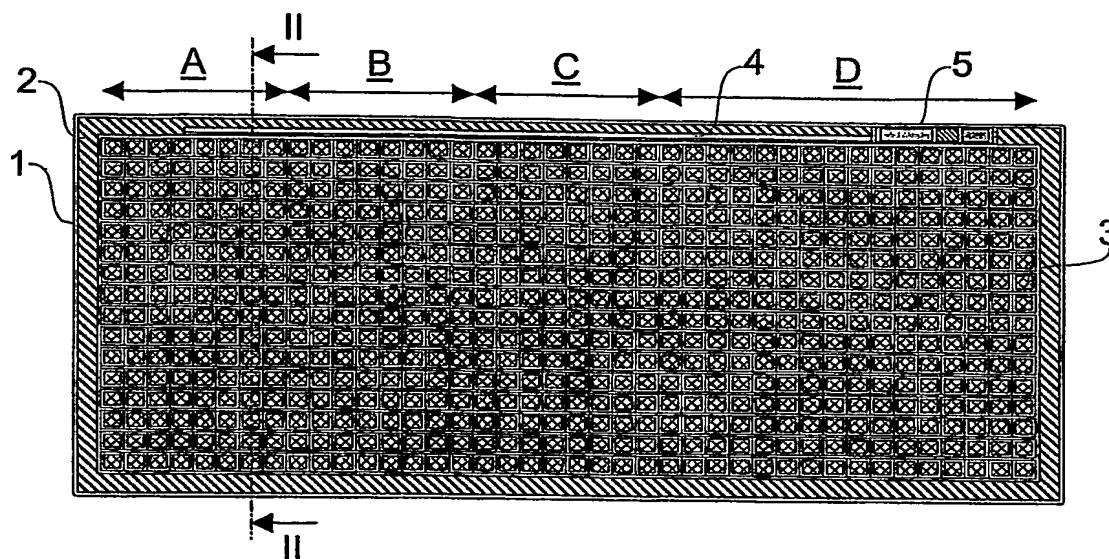
(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

[Continued on next page]

(54) Title: **AIR MATTRESS WITH PRESSURE CONTROL SYSTEM**



(57) Abstract: Mattress comprising an external cover (1) in which a padding (2) including one or more air chambers (3), which can be inflated for supporting the body of at least one user and are connected by means of air inlets (4) to an electric compressor (12) for sucking air from the outside and pump it into one or more groups (A, B, C, D) of air chambers (3), is arranged, said inlets (4) being provided with electric valves (14) connected to a control unit (15) which is in turn connected to an automatic switch (18) arranged along an electric line between the compressor (12) and an electric power source (19), wherein the control unit (15) opens or closes the electric valves (14) and/or the automatic switch (18) according to the control signals coming from one or more pressure sensors (20) which measure the pressure in the air chambers (3).

WO 2005/058100 A1

WO 2005/058100 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.